

ABSTRACT

Methods of bonding glass and silicon-containing articles are disclosed. Bonding is achieved without use of adhesives or high temperature fusion. A wide variety of glass and silicon-containing articles may be bonded by the methods of the invention.

1. A method of bonding a glass article to a silicon-containing article, comprising the steps of: (a) heating the glass article to a temperature above the glass transition temperature of the glass; (b) heating the silicon-containing article to a temperature above the melting point of the silicon-containing article; (c) bringing the heated glass article and the heated silicon-containing article into contact with each other; and (d) maintaining the contact between the glass article and the silicon-containing article for a period of time sufficient to bond the glass article to the silicon-containing article.